GRID DEPLOYMENT OFFICE

FACT SHEET

GRID RESILIENCE AND INNOVATION PARTNERSHIPS PROGRAM

Established by the Bipartisan Infrastructure Law, the U.S. Department of Energy's Grid Deployment Office is administering a historic $10.5 billion investment via the Grid Resilience and Innovation Partnerships (GRIP) program to enhance grid flexibility, improve the resilience of the power system against growing threats of extreme weather and climate change, and ensure American communities have access to affordable, reliable, clean electricity when and where they need it.

ENHANCING UTILITY RESILIENCE IN AMERICA'S MOST FORESTED STATE

Through this project, Central Maine Power (CMP) will deploy Smart Grid technologies including advanced grid restoration (AGR) and sequential reclosing (SR)—innovative, "self-healing" technology implemented and designed to reduce the frequency and impact of outages to the communities served, as well as a transmission supervisory control and data acquisition (SCADA) switch program to prevent faults and maximize benefits to **disadvantaged communities** (DACs). These technical approaches have the potential to modernize the grid, increase capacity, reduce clean energy curtailment, unlock additional clean energy generation, and enable more resilient grid operation.

Anticipated Outcomes and Benefits

The proposed technology solutions will increase the flexibility, efficiency, reliability, and resilience of the electric power system while ensuring a variety of community-level benefits, including:

- Enhanced ability of CMP to identify faults and to redirect or shut off power to minimize blackouts and avoid further damage.
- Mitigated impacts of extreme weather or natural disasters on grid resiliency.
- Improved electrical system visibility for grid operators, allowing for rapid rebalancing of the electrical system with autonomous controls using data analytics, software, and sensors.
- Aggregated and integrated distributed energy resources, including renewable generation, while enabling other grid-edge infrastructure.
- Increased system reliability for customers in DACs.
- Commitment to create 100 jobs across a variety of sectors over the project's duration while offering workforce development opportunities for aspiring professionals.
- Targeted key community resilience centers including emergency shelters, hospitals, and other public safety infrastructure.
- Indirectly improved air quality and mitigated CO_2 emissions through the integration of new distributed generation.
- Commitment to ensuring that all jobs created in relation to this funding have good benefits and receive Davis-Bacon compliant wages, at a minimum.

PROJECT DETAILS

- **Project:** Enhancing Utility Resilience in America's Most Forested State
- **Applicant/Selectee:** Central Maine Power
- **GRIP Program:** Smart Grid Grants (Bipartisan Infrastructure Law, Section 40107)
- **Federal cost share:** $30,306,795
- **Recipient cost share:** $30,306,795
- **Project Location:** Maine
- **Project type:** Resilience and Sectionalization

HELPFUL LINKS

- Grid Resilience and Innovation Partnerships Program
- About the Grid Deployment Office

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